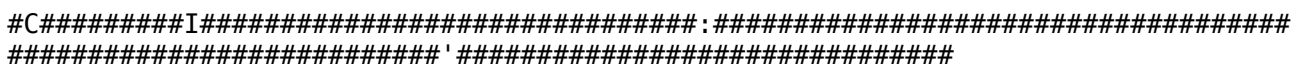

```
#!#########!##### ###########!
################ÿÿd#########Z##############ÿÿd#########Z#########r####j÷Mú#ã
üÿÿ$###ÿÿ#####ÿ#ÿÿd#########Z#########-###FIRE CONTROL SYSTEM#FIELD
ARTILLERY#AN/GYK-37ü
```

```
#1#########1#################1#########1####ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########□###INDIVIDUAL PIECE LOCATIONINDIVIDUAL
PIECE AIMPOINTINDIVIDUAL PIECE MUZZLE VELOCITY VARIATIONSINDIVIDUAL PIECE
BALLISTIC TRAJECTORIES
```

```
#################
##########################ÿ□#ÿÿd#########Z#########2##□##Jöuüv#[#ÿÿ####ÿÿ#####ÿ□
#ÿÿd#########Z#########□###LIGHTWEIGHT COMPUTER UNIT (LCU)PRINTERAC/DC CONVERTER
CHARGEREXTERNAL TACTICAL COMMUNICATIONS INTERFACE MODULE (TCIM)GUN DISPLAY UNIT
(GDU)
```

```
#################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########ç###INFORMATION STORAGECOMPUTATION OF
FIRING DATATRANSMISSION AND RECEIPT OF HIGH SPEED DIGITAL MESSAGESDISPLAY OF
INFORMATION, RECEIVED MESSAGES, AND FIRE MISSION DATACOMPOSITION AND EDITING OF
MESSAGESCONDUCTS POWER-ON SELF-TEST#
```

```
####ÿ□#ÿÿd#########Z#########2##□##j÷µû□#3#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z########
#Â###TWO INTERNAL COMMUNICATION CHANNELS THROUGH THE INTERNAL TCIMREMOVABLE
INTERNAL HARD DISK DRIVEDETACHABLE KEYBOARD640 X 480 VGA COMPATIBLE 10 INCH LCD
SCREEN25 MHz 80486 32-BIT PROCESSOR
```

#####$###############$#########################ÿ□#ÿÿd#########Z#########2##□##j ÷□ü□#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########÷###5 STANDARD FULL-LENGTH EXPANSION SLOTS FOR OPTIONAL SPECIAL PURPOSE BOARDSINTERNAL 2400 bps MODEM32 MB RAMOPERATES FROM 110/220 VAC, RECHARGEABLE NICKEL-CADMIUM BATTERY PACK, OR ALKALINE BATTERIES2 HOUR OPERATION FROM RECHARGEABLE BATTERY PACK#

```
###############$####################
####ÿ□#ÿÿd#########Z#########2##□###j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z########
#ý###COMMUNICATIONS INTERFACE DEVICE USED BY BCSPROVIDES 2 ADDITIONAL
COMMUNICATIONS CHANNELS (CHANNELS 3 & 4) IN ADDITION TO THE TWO CHANNELS
PROVIDED BY THE INTERNAL TCIM (CHANNELS 1 AND 2)HAS A SMALL COMPUTER SYSTEMS
INTERFACE (SCSI) SWITCH ON THE FRONT#
```

#################$##########################ÿ□#ÿÿd#########Z#########2##□##zö□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd######### #########Þ###USED TO PRINT MESSAGES AUTOMATICALLY OR AS SELECTED BY THE OPERATORPRINTS NORMAL TEXT IN DRAFT MODE AND NEAR-LETTER QUALITY MODECAN USE CONTINUOUS TRACTOR-FEED PAPER OR SINGLE SHEET PAPERCAN OPERATE FROM BATTERY PACK

#################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□ #K#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########Ä###DISTRIBUTES AND REGULATES POWER REQUIRED TO OPERATE THE LCU, PRINTER, EXTERNAL TCIM, AND CHARGE THE INSTALLED RECHARGEABLE BATTERY PACKTAKES 110/220 VAC, 50/60 HZ, OR 16 TO 32 VDC, AND CONVERTS IT TO THE PROPER VOLTAGES FOR POWERING THE ABOVE DEVICESPROVIDES CONTINUOUS POWER CAPABILITY WHEN SWITCHING TO BATTERY SOURCE IN EVENT OF PRIMARY POWER SOURCE FAILUREBATTERY CHARGING CIRCUITRY AUTOMATICALLY SENSES CONDITION OF RECHARGEABLE BATTERY PACK

```
################$########################ÿ□#ÿÿd#########Z#########2##□##j÷-
ü□#ß#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########C###ENSURE ALL ATTACHED PERIPHERALS
ARE OFFPOWER UP AC/DC CONVERTER  CHARGERTURN ON AND ADJUST RADIOS AND
AMPLIFIER/POWER SUPPLY GROUPIF AVAILABLE, TURN ON PRINTERIF TO BE USED, TURN ON
KY-57 AND COMSECTURN ON TCIMENSURE HARD DISK DRIVE IS INSTALLED PROPERLY AND NO
FLOPPY DISK IS INSTALLEDSET ON/OFF SWITCH ON LCU TO ONS
```

#################$###########################ÿ□#ÿÿd#########Z#########2##□###÷ÍûB
#{#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########R###CONDUCT OF AREA FIRE MISSIONS
LOCATION OF TARGETS USING GRID, POLAR, LASER POLAR, AND SHIFT FROM A KNOWN POINT
COMPUTATION OF FIRING DATA FOR ALL CURRENT PROJECTILESCONDUCTS PRECISION,
HB/MPI, AND RADAR REGISTRATION MISSIONSCONDUCTS LASER MISSIONSCONDUCTS OBSERVER
LOCATION PROCESSING (RESECTION, TRILATERATION, AND TRIANGULATION)

```
#################$##########################ÿ□#ÿÿd#########Z#########2##□##^÷
þ□#ó#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#############CONDUCTS TOT MISSIONS AND
EXECUTES FIRE PLANSPERFORMS ZONE TO ZONE TRANSFORMATION AND REPLOTCONDUCTS 3
ACTIVE AND 2 PRIORITY MISSIONSOPERATES WITH IFSAS OR AUTONOMOUSLYCONDUCTS RELAY
OF MESSAGES BETWEEN TWO SUBSCRIBERSCONDUCTS/CONTROLS MASSING FOR UP TO 5 OTHER
UNITS (BCSs)I
```

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###############$####################
####ÿ□#ÿÿd#########Z#########2##□##j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z########
#7###12 HOWITZER LOCATIONS120 TARGETS/KNOWN POINTS (MAXIMUM OF 99 KNOWN POINTS)
30 OBSERVER LOCATIONS12 FSCMsMAXIMUM 10 RFAs (CIRCULAR NO FIRE AREAS)ONE, 3 TO
30 POINT, ZONE OF RESPONSIBILITYONE, 2 TO 30 POINT, FORWARD LINE OF TROOPS(FLOT)
24 MASKS (MAXIMUM OF 8 PER HOWITZER)8 SETS OF REGISTRATION CORRECTIONSÿ
```

```
###############$####################
####ÿ□#ÿÿd#########Z#########2##□##j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z########
#[###2 COMPUTER MET MESSAGES AND 1 STANDARD COMPUTER MET4 FIRE PLANS WITH TOTAL
MAXIMUM 78 FIRE PLAN TARGETS72 SUBSCRIBERSMVVs STORED BY HOWITZER, PROJECTILE
FAMILY, AND PROPELLANT TYPE, 2 MVVs PER PROJECTILE FAMILY/PROPELLANT TYPE MATCH
BATTERY AMMUNITION STATUS (UP TO 26 PROJECTILES, 9 PROPELLANTS, AND 26 FUZES)MAP
INFORMATIONRECEIVED MESSAGES#
```

```
#################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ ###ÿÿ#####ÿ□#ÿÿd#########Z#########j###ONLY ONE FIRING UNIT, AND ONE
AZIMUTH OF FIREENVIRONMENTAL CONCERNSLANGUAGE/ACCEPTABILITY- DOS VS UNIX
```

```
################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########ß###  DISPLAYS STATUS INFO FOR A MAX
OF 3 ACTIVE FIRE MSNS AND 2 CPH PRIORITY MSNS OR ONE CPH PRIORITY TGT AND ONE
FPF MSNKEY   TARGET   OB   MSN     P   PHASE   STATUS      1   2   3   41
BN1046    21     AREA        FFE         WR                 A2         AJ4506
22     REG         TIME       AMC           A3         BN1047     71    AREA
ADJ        WR                       A4         AB1000     70    CPH     5
AA2388   71 FPF       4   5   5   5S
```

#################$##########################ÿ□#ÿÿd#########Z#########3##□##XöÃû□
      Ãþÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########²###DISPLAYS MESSAGE INDICATOR,
CURRENT SYSTEM TIME AND DATE, HOWITZER STATUS, DATA BASE FILES STATUS, INPUT
QUEUE STATUS, NUMBER OF SYSTEM WARNINGS, AND SYSTEM DISK UNIT (DU) ACCESS

```
#################$##########################ÿ□#ÿÿd#########Z#########9#¸ü##Èõ#ü~
      ñüÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########*###DISPLAYS CURRENT MISSION OR
MESSAGE FORMAT
```

```
#################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########È#########□###RETURN TO MAIN INDEX AND SELECT □7□
(SYSTEM SHUTDOWN)FOLLOW INSTRUCTIONS ON BCS SCREENTURN OFF PERIPHERAL EQUIPMENT
FIRSTTURN OFF MAIN BCS POWER SWITCH
```

################$###ÿ□#ÿÿd#########Z####
#####2##□##□÷Íû®#³#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########Ñ###FUNCTIONS: 1.
      RECEIVES FIRING DATA FROM THE BCS AND   DISPLAYS IT TO THE HOWITZER CREW
      2.   RESPONDS TO BCS STATUS POLLSMAJOR COMPONENTS: 1.   CASE ASSEMBLY
      2.   SECTION CHIEF ASSEMBLY 3.   TWO GUN ASSEMBLIESa

###############,####################
####ÿ□#ÿÿd#########Z#########2##□##j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z########
#####PROVIDES AN INTERFACE FOR EXTERNAL POWER APPLICATIONMOUNTS A NON-RECHARGEABLE, LITHIUM, BA5590/U BATTERY FOR INTERNAL POWER APPLICATIONPROVIDES AN INTERFACE FOR DATA RECEPTION AND TRANSMISSIONCONTAINS CONTROLS FOR GDU OPERATIONSOUNDS AN ALARM UPON RECEIPT OF FIRING DATA

```
#D###############
#########*#################D#########D####ÿ□#ÿÿd#########Z#########2##□##¦÷eþÒÿK
#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########K###MISSION TYPESPECIAL INSTRUCTIONSSHELL
TYPE AND LOTPOWDER LOTCHARGEFUZE#
```

#################
#########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□
#ÿÿd#########Z#########□###TRANSMITS HOWITZER STATUS TO THE BCS -- MANUAL
ACKNOWLEDGEMENT   -- SHOT   --ROUNDS COMPLETE --READYCONDUCTS SELF DIAGNOSTIC
TEST FOR FAULT DETECTION

```
#################
##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□#s#ÿÿ####ÿÿ#####ÿ□
#ÿÿd#########Z#########~###FEATURES:      --    LED DIGITAL DISPLAY     --
      SELECTIVE OR SEQUENTIAL DISPLAY OF       FIRING DATA --    POWER
CONSERVING DISPLAY CUT-OFF
```

#################(##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########Ä###FUNCTIONS: -- DISPLAYS
DEFLECTION IF CONNECTED TO THE DEFLECTION BINDING POSTS OF THE CASE
ASSEMBLY -- DISPLAYS QUADRANT ELEVATION IF CONNECTED TO
THE QE BINDING POSTS OF THE CASE ASSEMBLY

```
#################(##########################ÿ□#ÿÿd##########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########[###FEATURES:      --    LED DIGITAL
DISPLAY     --    POWER CONSERVING DISPLAY CUT-OFF    --    DISPLAY RECALL#
```

#################$##########################ÿ□#ÿÿd#########Z#########2##□##j÷□ü□
#s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########Z#########`###TB 11-7025-293-10-1: CANNON BATTERY COMPUTER SYSTEM SOFTWARE FOR FIRE CONTROL SYSTEM AN/GYK-37TB 11-7025-293-10-2: CANNON BATTERY COMPUTER SYSTEM SOFTWARE FOR FIRE CONTROL SYSTEM AN/GYK-37TM 11-7440-283-12-2: GDU OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUALBCS SPECIAL TEXT (ST 6-40-2)TM 11-7021-217-12&P: OPERATOR AND UNIT MAINTENANCE MANUAL

```
##########################$#######F###########LIGHTWEIGHT COMPUTER
SYSTEM###################CPT ########################################David
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       æùS   æùS   äùO   äùO   âùK   âùI   ÞùE   ÞùE   ÜùA   ÜùA   Úù>   Úù<   Öù8
       Öù8   Ôù4   Ôù4   Óù0   Óù.   Ïù*   Ïù*   Íù'   Íù'   Ëù#   Ëù!   Çù#   Çù#
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    ËùI  ÏùM  ÏùM  ÑùQ  ÑùS  ÔùW  ÔùW  ÖùZ  ÖùZ  Øù^  Øù`  Üùd  Üùd
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```